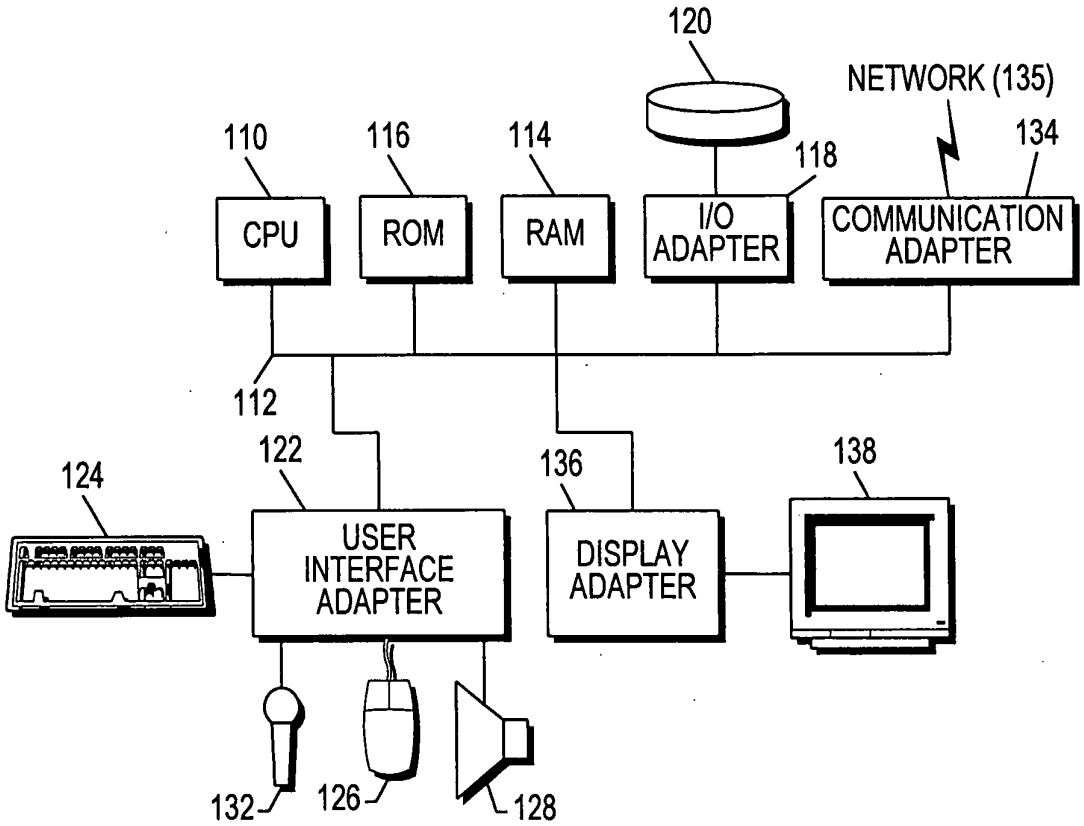
120
NETWORK (135)
110
116
114
118
134
CPU
ROM
RAM
I/O ADAPTER
COMMUNICATION ADAPTER
112
122
136
138
124
USER INTERFACE ADAPTER
DISPLAY ADAPTER
132
126
128

Figure 1

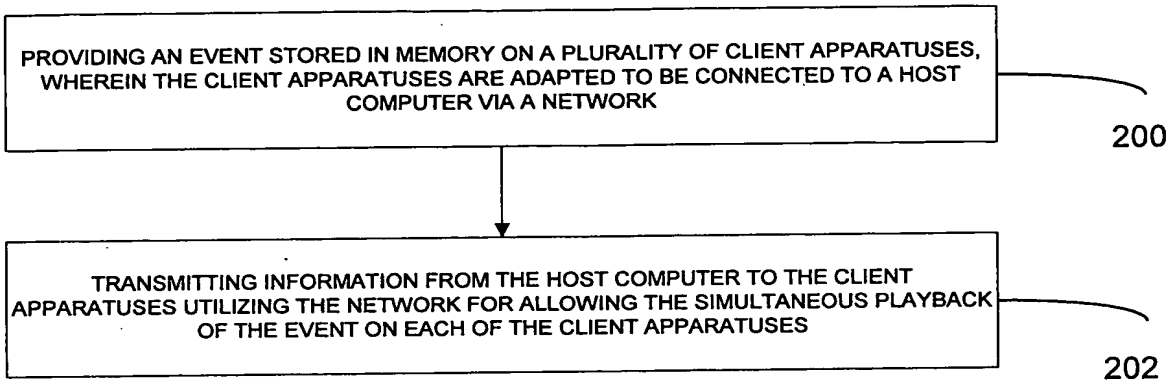

Figure 2

09450754 - 070200

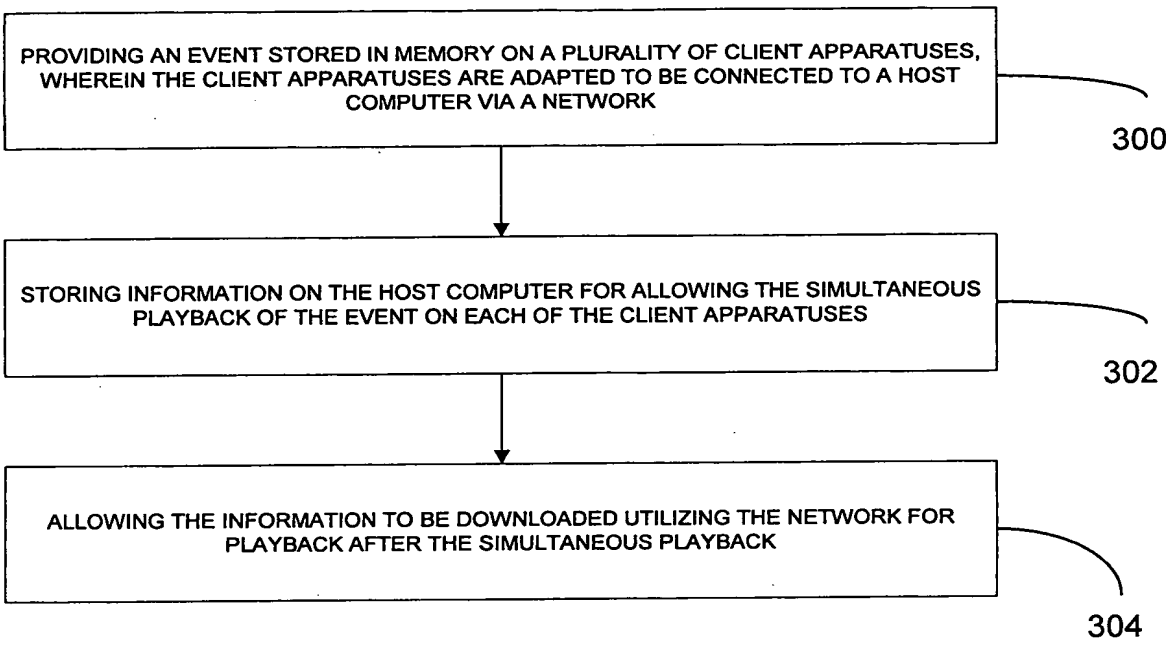

Figure 3

Doc No. 5,453,804

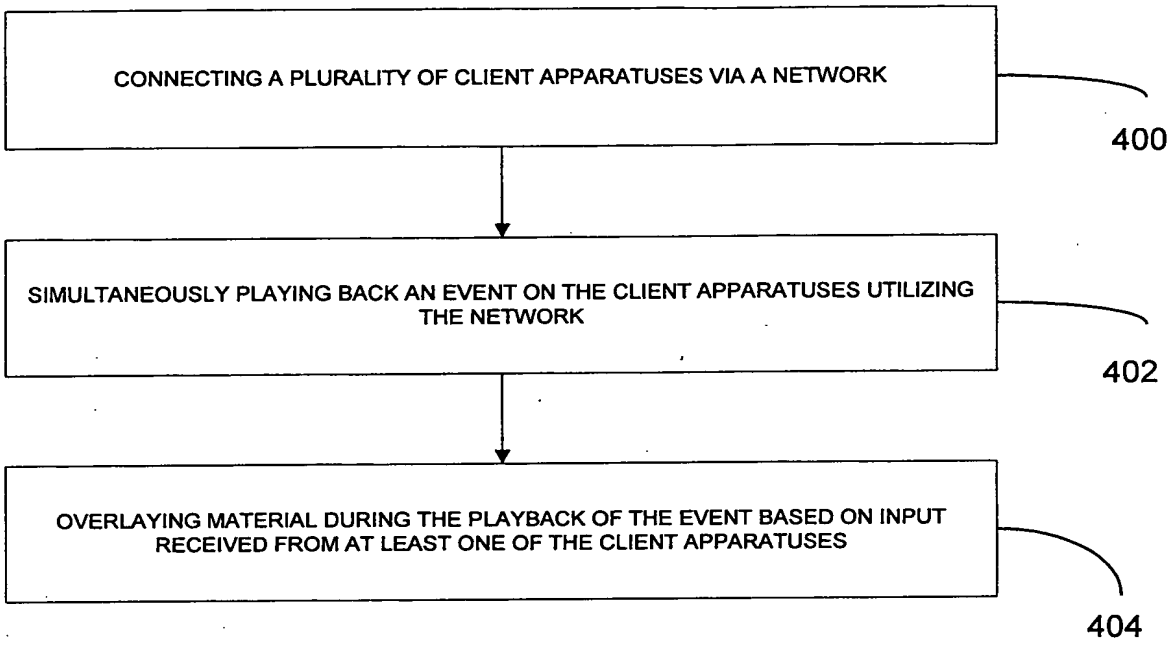

Figure 4

Docket No. 200405

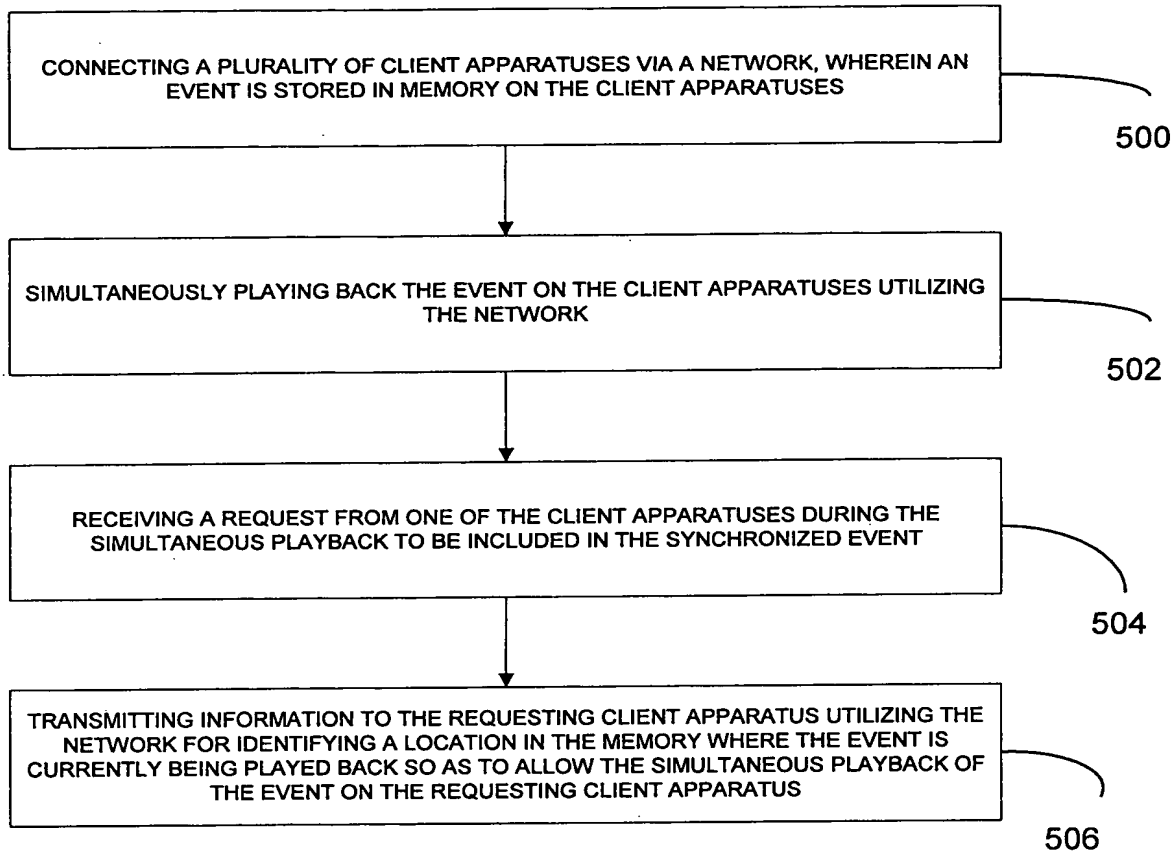
CONNECTING A PLURALITY OF CLIENT APPARATUSES VIA A NETWORK, WHEREIN AN EVENT IS STORED IN MEMORY ON THE CLIENT APPARATUSES
500
SIMULTANEOUSLY PLAYING BACK THE EVENT ON THE CLIENT APPARATUSES UTILIZING THE NETWORK
502
RECEIVING A REQUEST FROM ONE OF THE CLIENT APPARATUSES DURING THE SIMULTANEOUS PLAYBACK TO BE INCLUDED IN THE SYNCHRONIZED EVENT
504
TRANSMITTING INFORMATION TO THE REQUESTING CLIENT APPARATUS UTILIZING THE NETWORK FOR IDENTIFYING A LOCATION IN THE MEMORY WHERE THE EVENT IS CURRENTLY BEING PLAYED BACK SO AS TO ALLOW THE SIMULTANEOUS PLAYBACK OF THE EVENT ON THE REQUESTING CLIENT APPARATUS
506

Figure 5

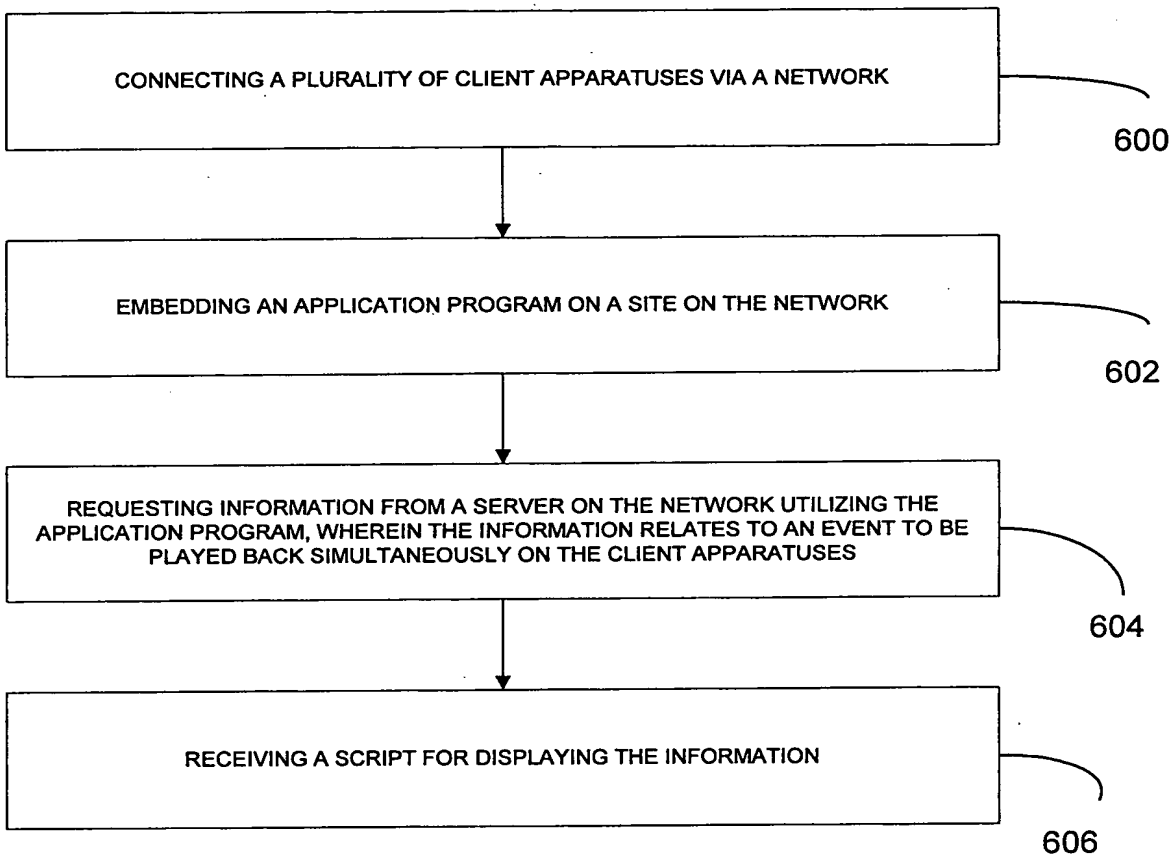
CONNECTING A PLURALITY OF CLIENT APPARATUSES VIA A NETWORK
600
EMBEDDING AN APPLICATION PROGRAM ON A SITE ON THE NETWORK
602
REQUESTING INFORMATION FROM A SERVER ON THE NETWORK UTILIZING THE APPLICATION PROGRAM, WHEREIN THE INFORMATION RELATES TO AN EVENT TO BE PLAYED BACK SIMULTANEOUSLY ON THE CLIENT APPARATUSES
604
RECEIVING A SCRIPT FOR DISPLAYING THE INFORMATION
606

Figure 6

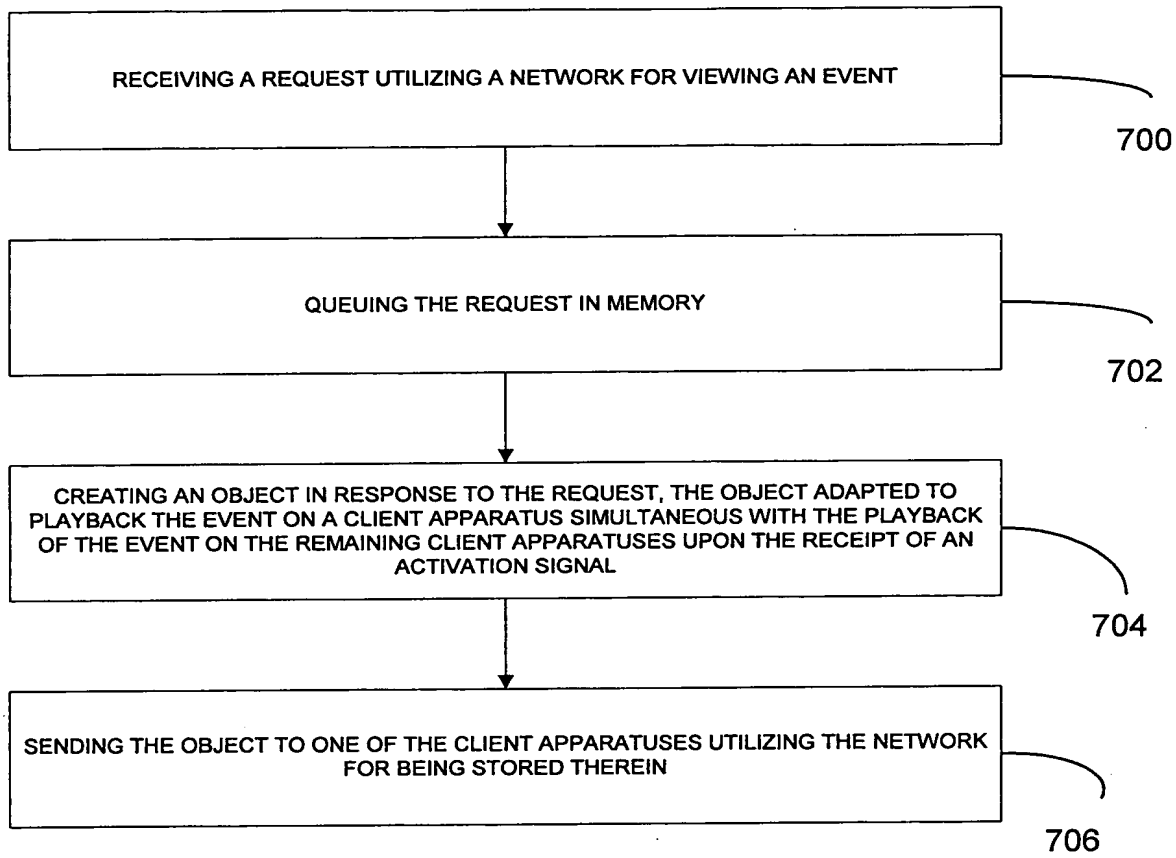
RECEIVING A REQUEST UTILIZING A NETWORK FOR VIEWING AN EVENT
700
QUEUING THE REQUEST IN MEMORY
702
CREATING AN OBJECT IN RESPONSE TO THE REQUEST, THE OBJECT ADAPTED TO PLAYBACK THE EVENT ON A CLIENT APPARATUS SIMULTANEOUS WITH THE PLAYBACK OF THE EVENT ON THE REMAINING CLIENT APPARATUSES UPON THE RECEIPT OF AN ACTIVATION SIGNAL
704
SENDING THE OBJECT TO ONE OF THE CLIENT APPARATUSES UTILIZING THE NETWORK FOR BEING STORED THEREIN
706

Figure 7

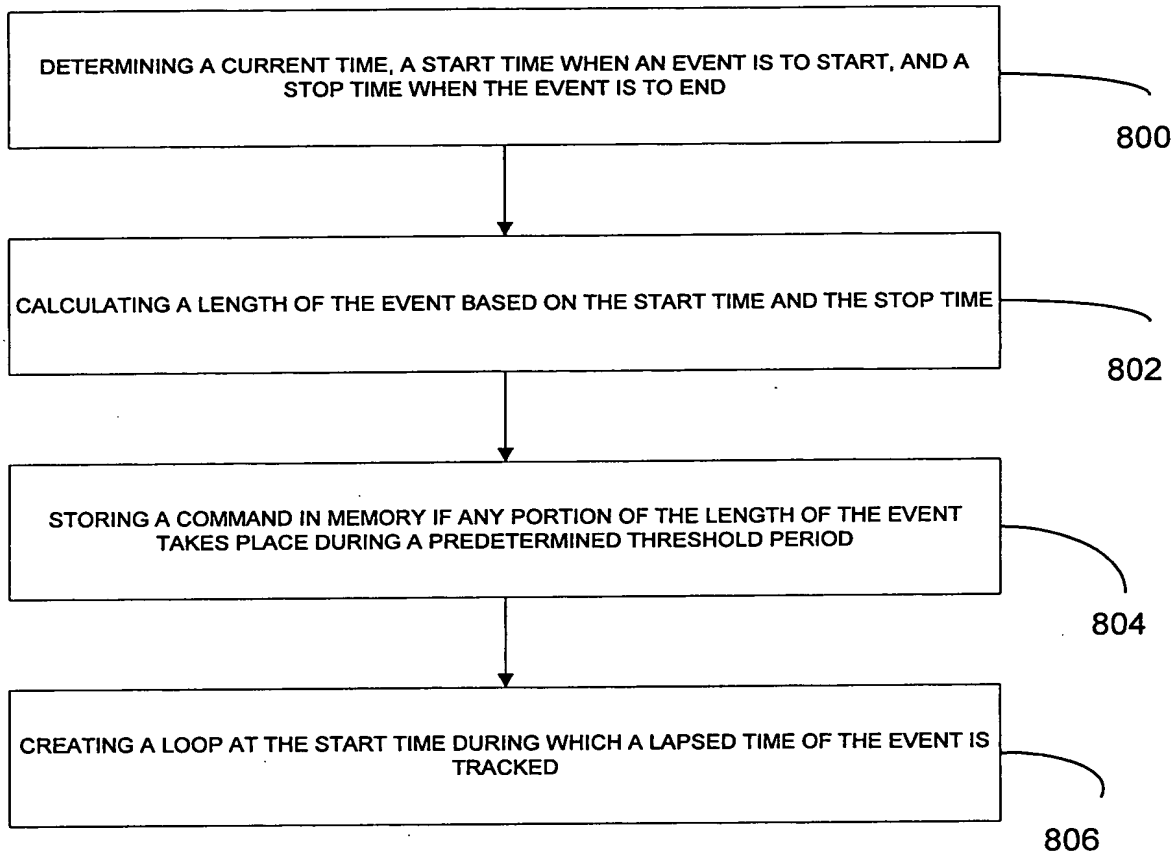
DETERMINING A CURRENT TIME, A START TIME WHEN AN EVENT IS TO START, AND A STOP TIME WHEN THE EVENT IS TO END
800
CALCULATING A LENGTH OF THE EVENT BASED ON THE START TIME AND THE STOP TIME
802
STORING A COMMAND IN MEMORY IF ANY PORTION OF THE LENGTH OF THE EVENT TAKES PLACE DURING A PREDETERMINED THRESHOLD PERIOD
804
CREATING A LOOP AT THE START TIME DURING WHICH A LAPSED TIME OF THE EVENT IS TRACKED
806

Figure 8

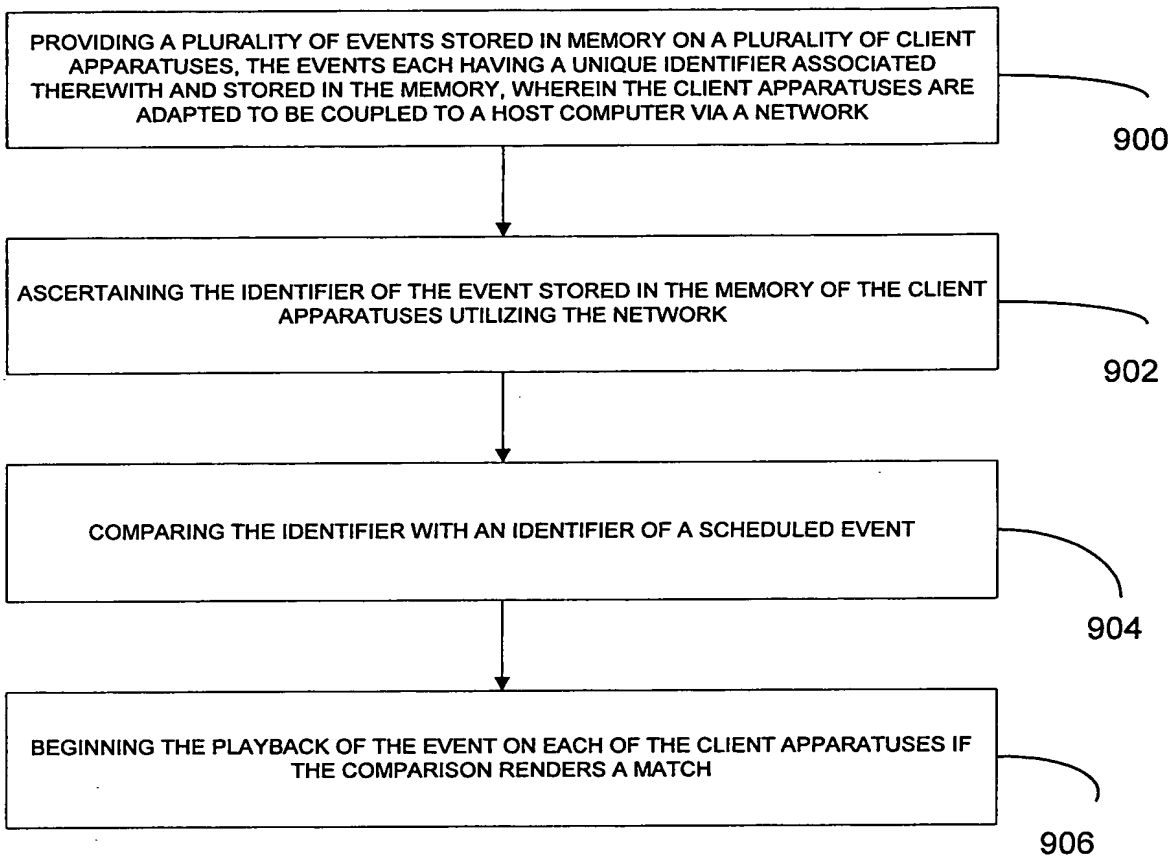

Figure 9

Docket No. 50277-0800

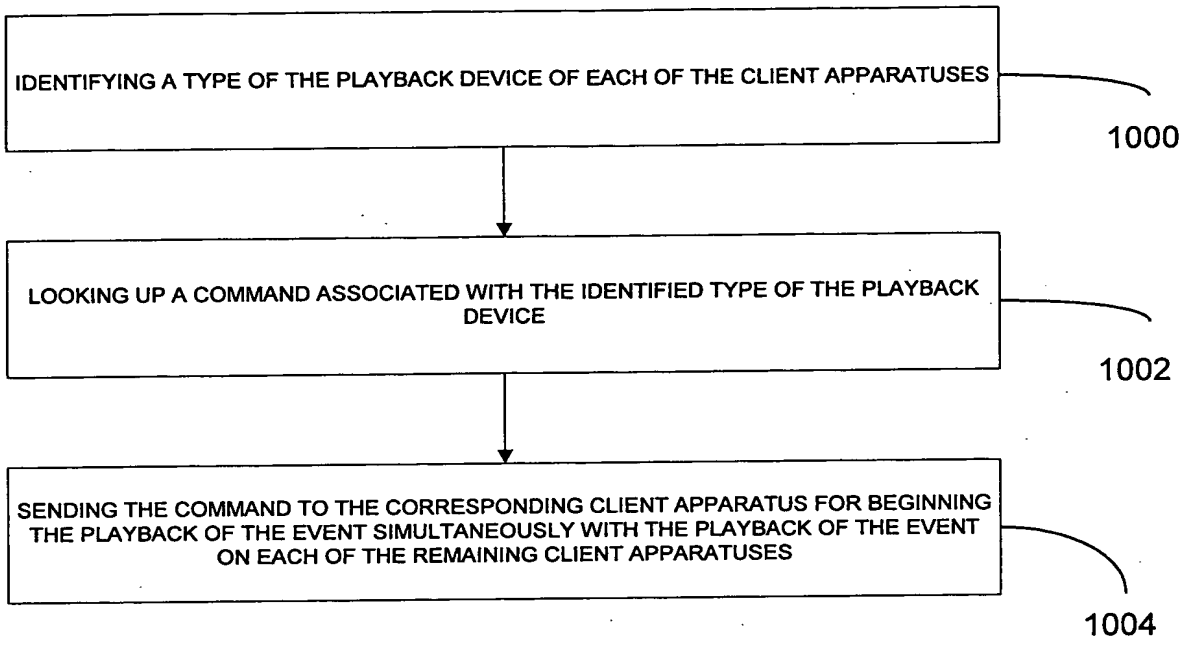
IDENTIFYING A TYPE OF THE PLAYBACK DEVICE OF EACH OF THE CLIENT APPARATUSES
1000
LOOKING UP A COMMAND ASSOCIATED WITH THE IDENTIFIED TYPE OF THE PLAYBACK DEVICE
1002
SENDING THE COMMAND TO THE CORRESPONDING CLIENT APPARATUS FOR BEGINNING THE PLAYBACK OF THE EVENT SIMULTANEOUSLY WITH THE PLAYBACK OF THE EVENT ON EACH OF THE REMAINING CLIENT APPARATUSES
1004

Figure 10

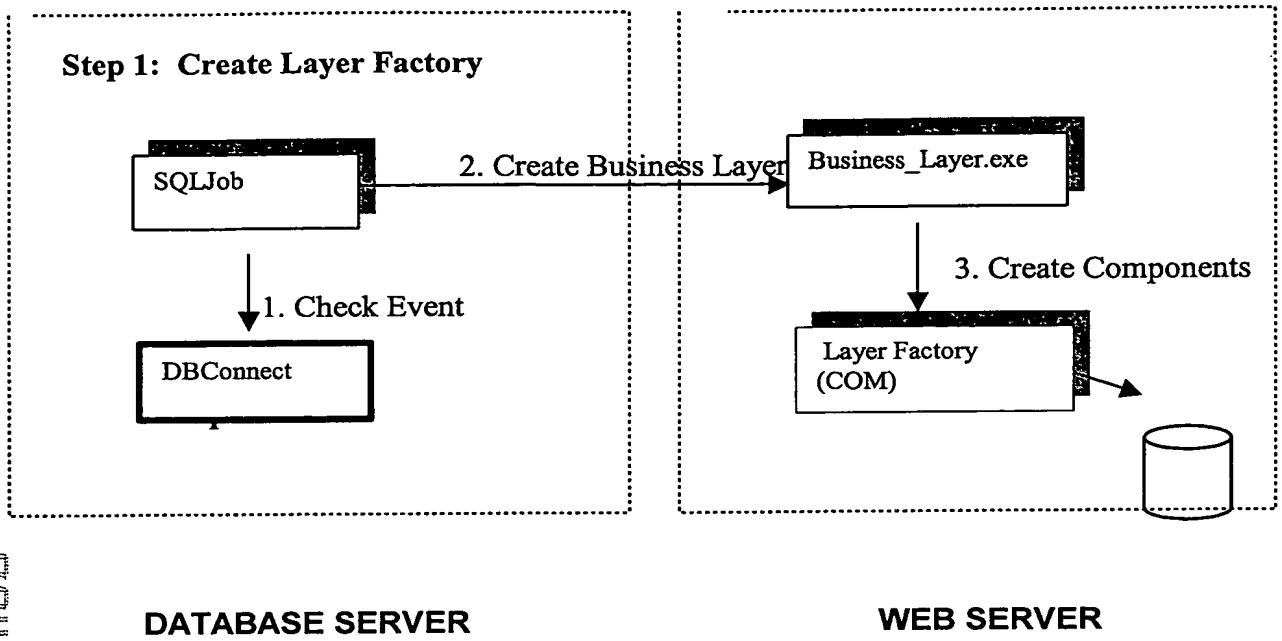

Figure 11

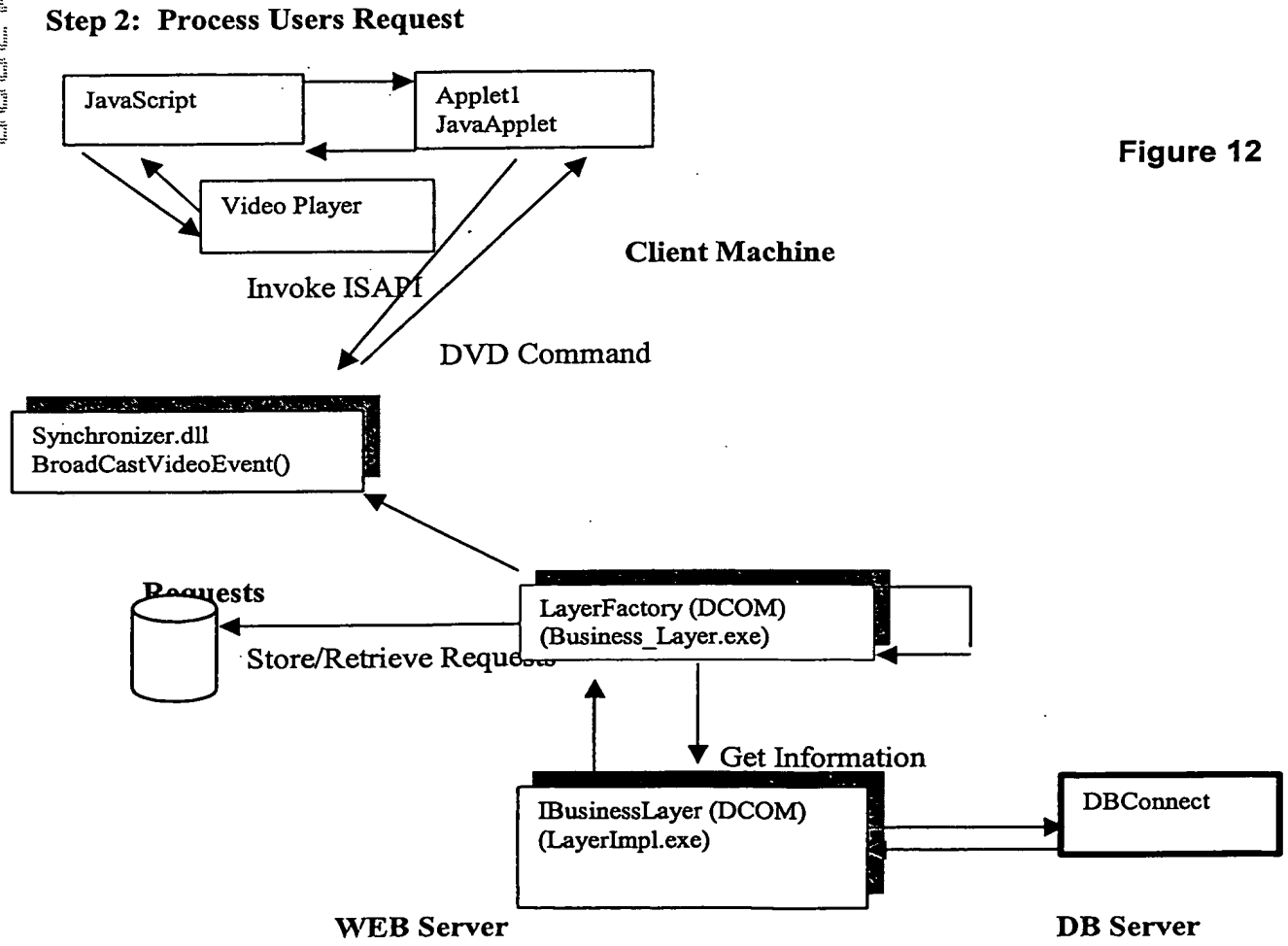

Figure 12

0002120 "54"3845"0

1300

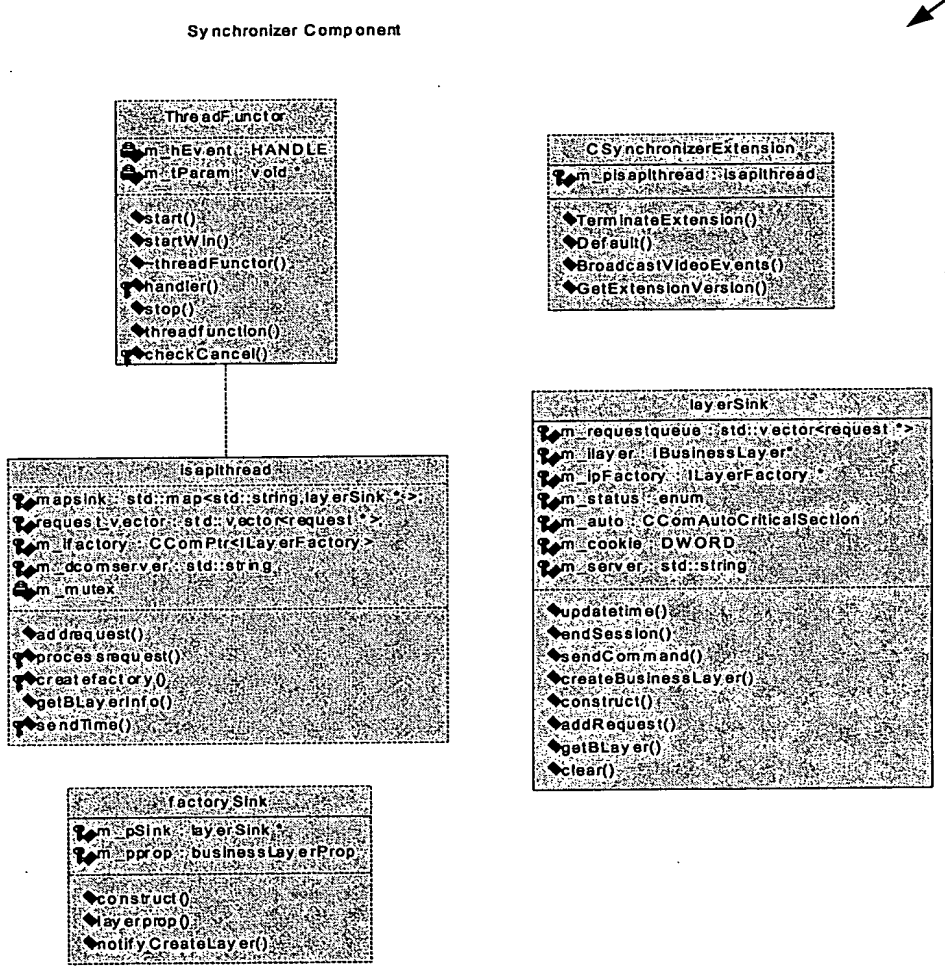

Figure 13

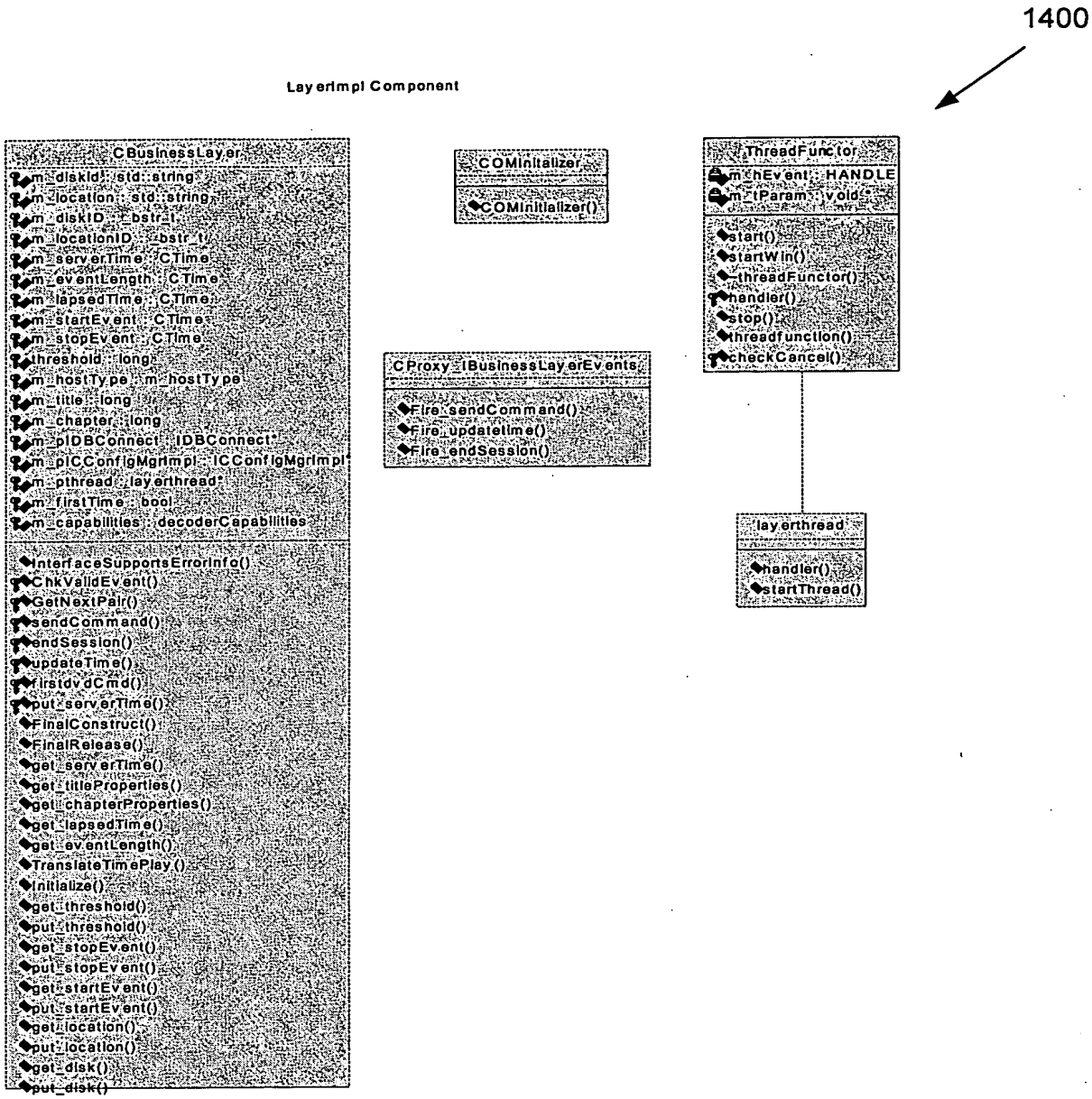
1400
LayerImpl Component
CBusinessLayer
m_diskId : std::string
m_location : std::string
m_diskID : bstr_t
m_locationID : bstr_t
m_serverTime : CTime
m_eventLength : CTime
m_lapsedTime : CTime
m_startEvent : CTime
m_stopEvent : CTime
threshold : long
m_hostType : m_hostType
m_title : long
m_chapter : long
m_pIDBConnect : IDBConnect*
m_pICConfigMgrImpl : ICConfigMgrImpl*
m_pthread : layerthread*
m_firstTime : bool
m_capabilities : decoderCapabilities
InterfaceSupportsErrorInfo()
ChkValidEvent()
GetNextPair()
sendCommand()
endSession()
updateTime()
firstIvdCmd()
put_serverTime()
FinalConstruct()
FinalRelease()
get_serverTime()
get_titleProperties()
get_chapterProperties()
get_lapsedTime()
get_eventLength()
TranslateTimePlay()
Initialize()
get_threshold()
put_threshold()
get_stopEvent()
put_stopEvent()
get_startEvent()
put_startEvent()
get_location()
put_location()
get_disk()
put_disk()
COMInitializer
COMInitializer()
CProxy_IBusinessLayerEvents
Fire_sendCommand()
Fire_updateTime()
Fire_endSession()
_ThreadFunctor
m_hEvent : HANDLE
m_tParam : void*
start()
startWin()
~threadFunctor()
handler()
stop()
threadfunction()
checkCancel()
layerthread
handler()
startThread()

Figure 14

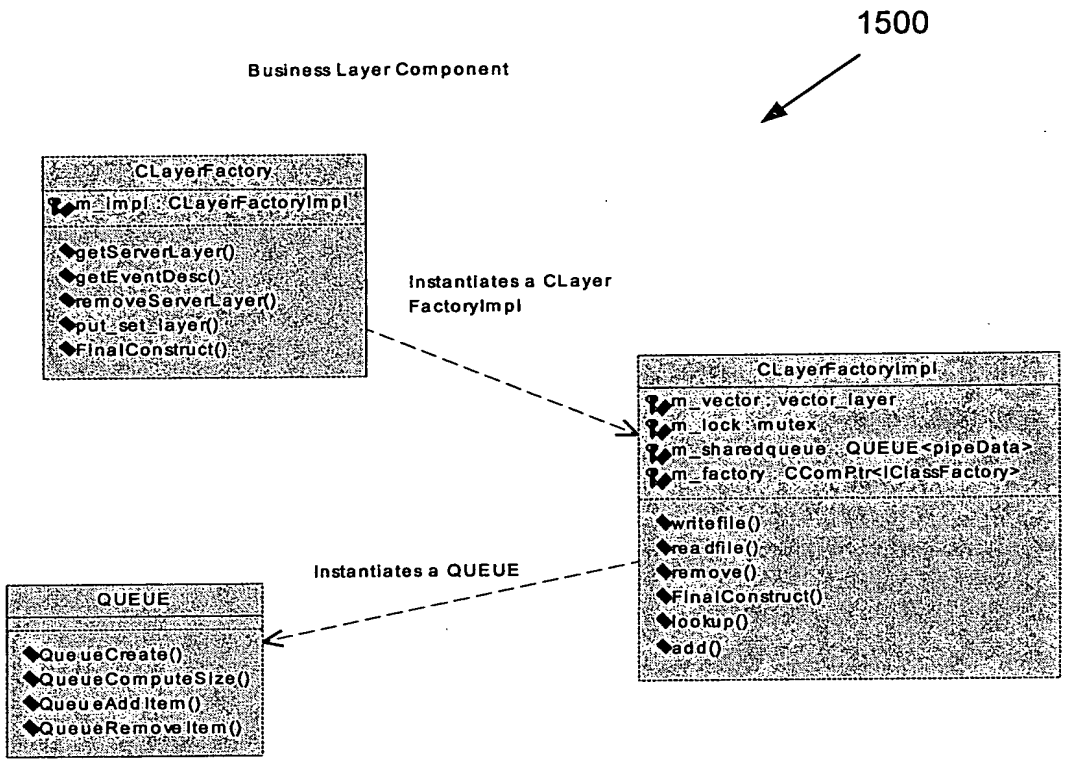
1500
Business Layer Component
CLayerFactory
m_Impl : CLayerFactoryImpl
getServerLayer()
getEventDesc()
removeServerLayer()
put_set_layer()
FinalConstruct()
Instantiates a CLayer FactoryImpl
CLayerFactoryImpl
m_vector : vector_layer
m_lock : mutex
m_sharedqueue : QUEUE<pipeData>
m_factory : CComPtr<IClassFactory>
writefile()
readfile()
remove()
FinalConstruct()
lookup()
add()
Instantiates a QUEUE
QUEUE
QueueCreate()
QueueComputeSize()
QueueAddItem()
QueueRemoveItem()

Figure 15

D0480345 - 042000

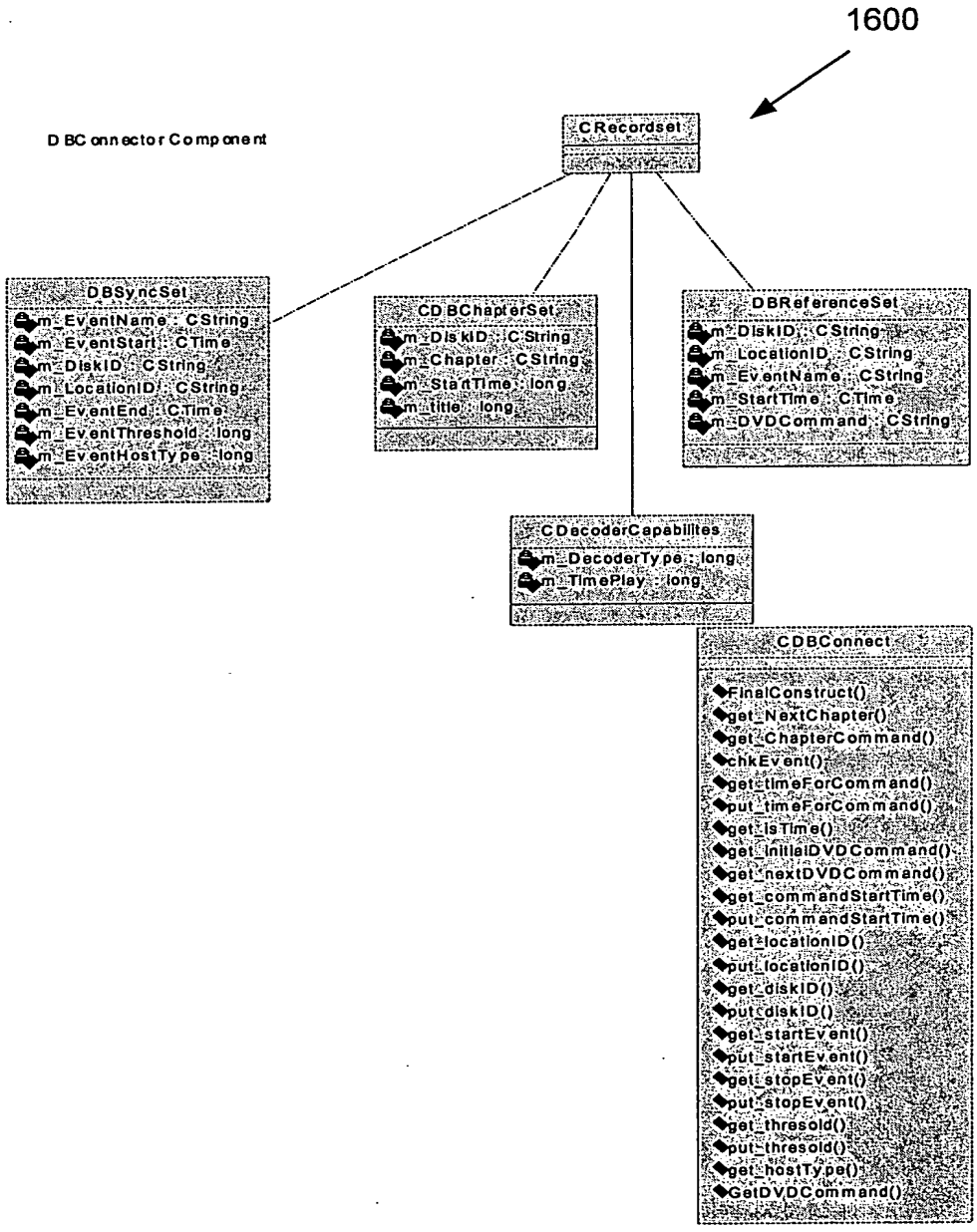

Figure 16

20070525-US-NP-SAMSUNG

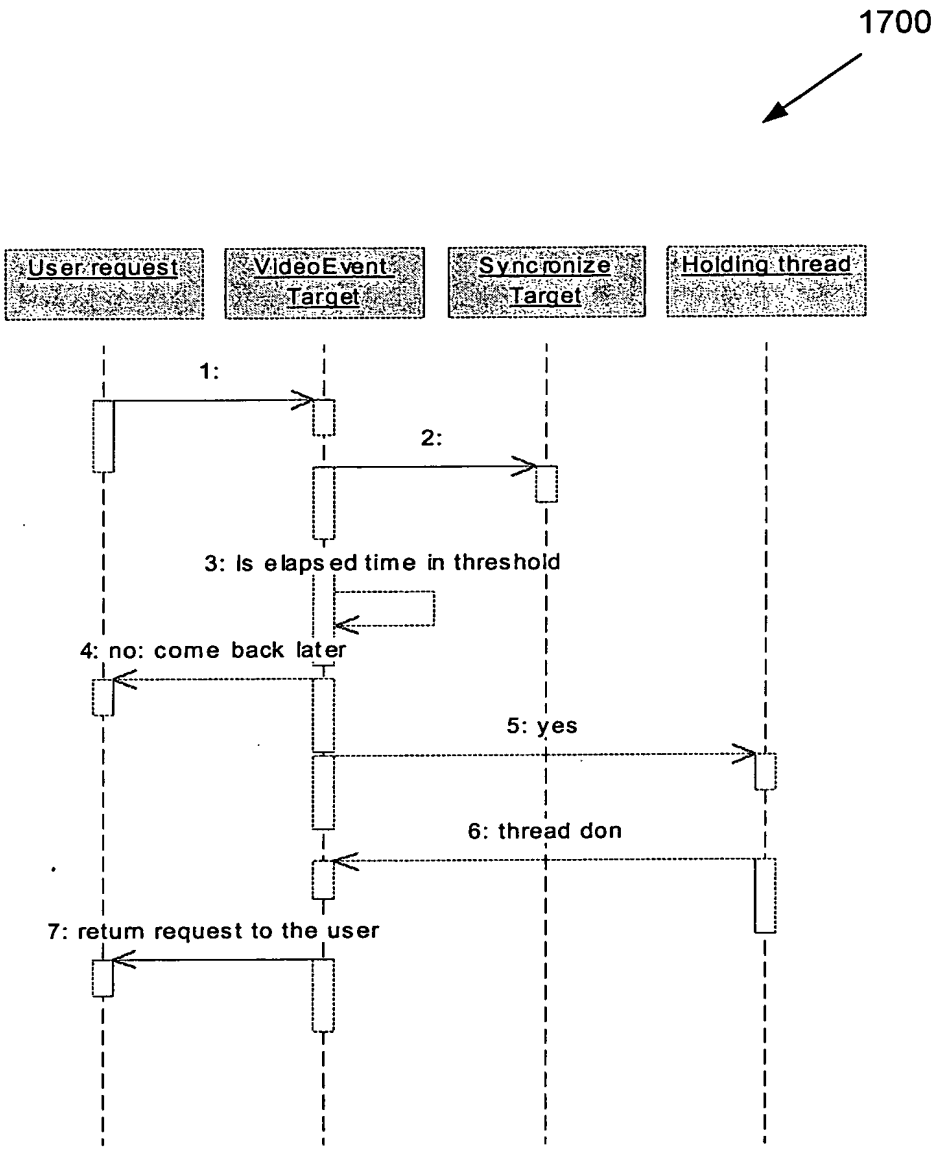

Figure 17

0002145.0543.0450

1800

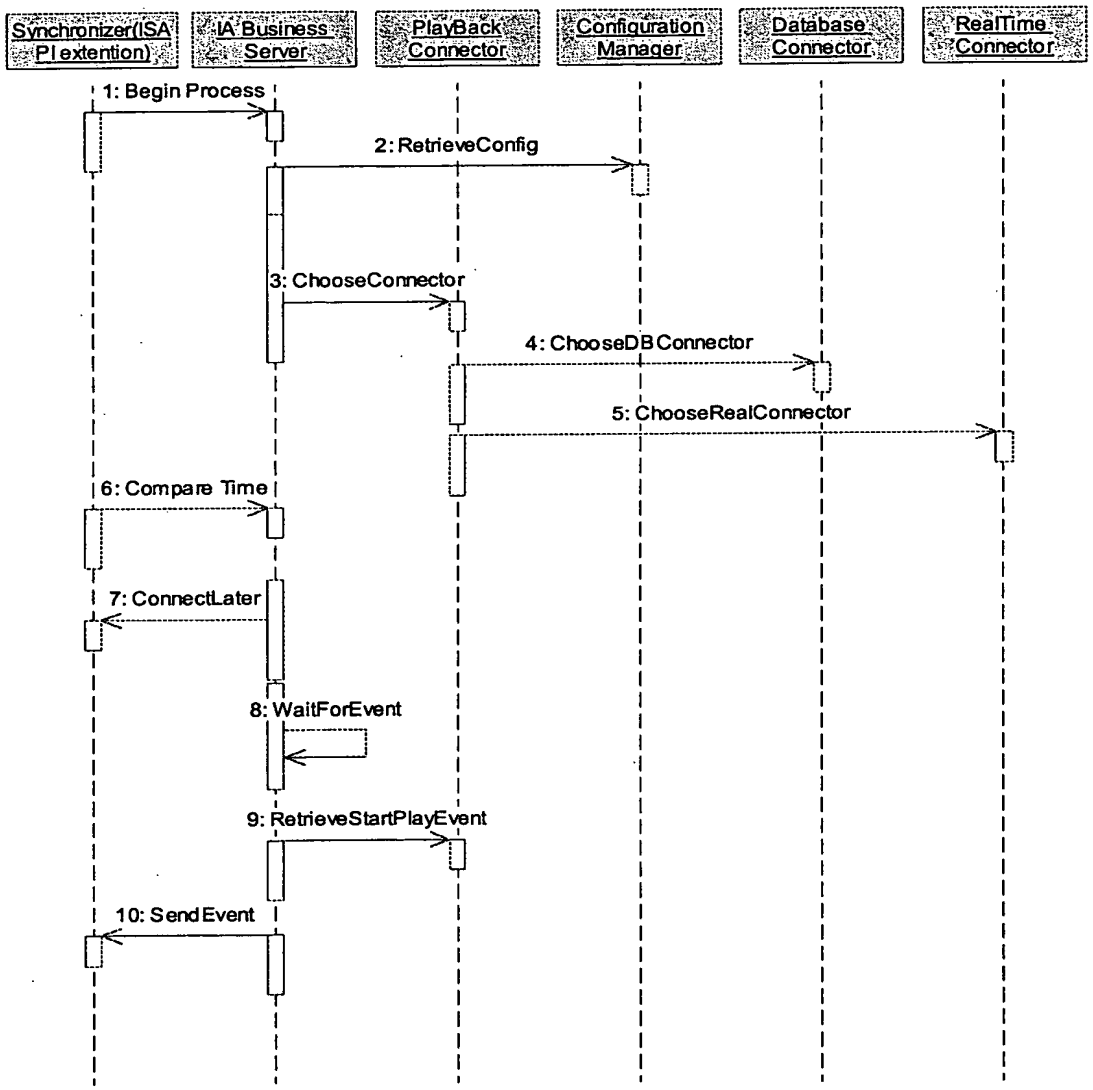

Figure 18

Doc No: 5468850

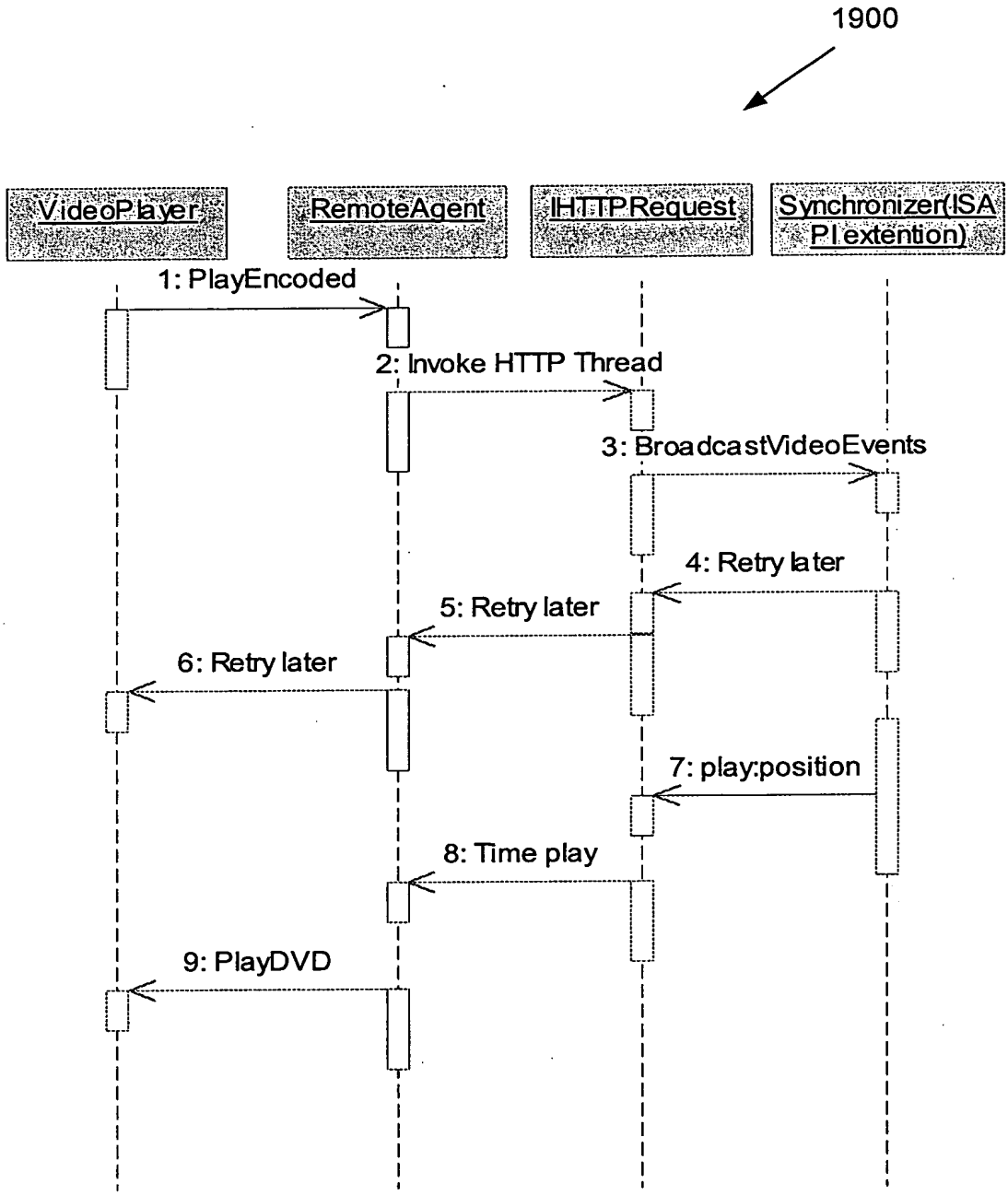

Figure 19